

Title (en)

STEEL SHEET FOR AN OIL SAND SLURRY PIPE HAVING EXCELLENT ABRASION RESISTANCE, CORROSION RESISTANCE AND LOW-TEMPERATURE TOUGHNESS AND METHOD FOR MANUFACTURING SAME

Title (de)

STAHLBLECH FÜR EIN ÖL/SAND-AUFSCHLÄMMUNGSROHR MIT HERVORRAGENDER ABRIEBFESTIGKEIT, KORROSIONSBESTÄNDIGKEIT UND TIEFTEMPperaturBESTÄNDIGKEIT SOWIE HERSTELLUNGSVERFAHREN DAFÜR

Title (fr)

TÔLE D'ACIER POUR UN TUYAU POUR DE LA BOUE DE SABLES BITUMINEUX AYANT D'EXCELLENTE RÉSISTANCE À L'ABRASION, RÉSISTANCE À LA CORROSION ET TÉNACITÉ À BASSE TEMPÉRATURE ET SON PROCÉDÉ DE FABRICATION

Publication

EP 2657361 A4 20140827 (EN)

Application

EP 11850578 A 20111221

Priority

- KR 20100133232 A 20101223
- KR 2011009943 W 20111221

Abstract (en)

[origin: EP2657361A2] Provided is a steel sheet for an oil sand slurry pipe having excellent abrasion resistance, corrosion resistance, and low-temperature toughness including 0.2 wt% to 0.35 wt% of carbon (C), 0.1 wt% to 0.5 wt% of silicon (Si), 0.5 wt% to 1.8 wt% of manganese (Mn), 0.1 wt% to 0.6 wt% of nickel (Ni), 0.005 wt% to 0.05 wt% of niobium (Nb), 0.005 wt% to 0.02 wt% of titanium (Ti), 0.03 wt% or less of phosphorous (P), 0.03 wt% or less of sulfur (S), 0.05 wt% or less (excluding 0 wt%) of aluminum (Al), 0.01 wt% or less (excluding 0 wt%) of nitrogen (N), and iron (Fe) as well as other unavoidable impurities as a remainder. According to an aspect of the present invention, a component system and a microstructure of steel may be controlled to obtain a steel sheet for an oil sand slurry pipe which may be produced as a pipe and may also have good economic factors and production efficiency as well as excellent abrasion resistance, improved corrosion resistance, and excellent low-temperature impact toughness even in a severely abrasive environment such as that of an oil sand slurry pipe.

IPC 8 full level

C22C 38/00 (2006.01); **C21D 8/02** (2006.01); **C22C 38/58** (2006.01)

CPC (source: EP KR US)

C21D 8/0205 (2013.01 - EP US); **C21D 8/0226** (2013.01 - KR); **C21D 8/0263** (2013.01 - EP US); **C21D 9/08** (2013.01 - KR); **C21D 9/46** (2013.01 - EP US); **C22C 38/001** (2013.01 - EP US); **C22C 38/02** (2013.01 - EP KR US); **C22C 38/04** (2013.01 - EP KR US); **C22C 38/06** (2013.01 - EP KR US); **C22C 38/08** (2013.01 - EP KR US); **C22C 38/12** (2013.01 - EP KR US); **C22C 38/14** (2013.01 - EP KR US); **C22C 38/48** (2013.01 - EP US); **C22C 38/50** (2013.01 - EP US); **C22C 38/58** (2013.01 - EP KR US); **C21D 8/0226** (2013.01 - EP US); **C21D 9/14** (2013.01 - EP US); **C21D 2211/005** (2013.01 - EP KR US); **C21D 2211/009** (2013.01 - EP KR US)

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- See references of WO 2012087028A2

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

EP 2657361 A2 20131030; EP 2657361 A4 20140827; EP 2657361 B1 20161109; CA 2822863 A1 20120628; CA 2822863 C 20161129; JP 2014506295 A 20140313; JP 5728593 B2 20150603; KR 101271781 B1 20130607; KR 20120071617 A 20120703; US 2013284324 A1 20131031; US 9238849 B2 20160119; WO 2012087028 A2 20120628; WO 2012087028 A3 20120907

DOCDB simple family (application)

EP 11850578 A 20111221; CA 2822863 A 20111221; JP 2013546015 A 20111221; KR 20100133232 A 20101223; KR 2011009943 W 20111221; US 201113996563 A 20111221